Exhibit 4

As Played in Court 5/16/23

Designation List Report

="	Chan, Christopher	2022-11-29
	Sonos Affirmatives	00:19:12
	Google Counters	00:00:56
	TOTAL RUN TIME	00:20:07
	Documents linked to video: T128	
	T130	



T138 T139

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Chan_C - As Played in Court 5/16/23

DESIGNATION	SOURCE	DURATION	I D
11:09 - 11:14	Chan, Christopher 2022-11-29	00:00:14	Chan_C.1
	11:09 Q. Good morning, Mr. Chan.		
	11:10 A. Good morning.		
	11:11 Q. Could you please state and spell your full name		
	11:12 for the record.		
	11:13 A. Christopher Chan, C-H-R-I-S-T-O-P-H-E-R,		
	11:14 C-H-A-N.		
15:03 - 15:05	Chan, Christopher 2022-11-29	00:00:07	Chan_C.2
	15:03 Q. Okay. And you understand that Google has		
	15:04 designated you to testify on their behalf regardi	ng	
	15:05 Topics 3 and 4 of this Notice; is that right?		
15:09 - 15:23	Chan, Christopher 2022-11-29	00:00:48	Chan_C.3
	15:09 THE WITNESS: Yes, I do.		
	15:10 Q. BY MR. SULLIVAN: Okay. And more specifically,		
	15:11 you are Google's corporate designee on Topic 3	as it	
	relates to: One, Google's strategies for the sale	and	
	15:13 marketing of the accused functionalities and th	e accused	
	15:14 hardware products; two, the competitive relation	nship	
	15:15 between the parties to the extent there is one; a	nd 3,	
	15:16 metrics information regarding installs of the acc	cused	
	15:17 software apps on the accused hardware devices	and usage	
	15:18 of the accused functionalities.		
	15:19 Is that correct?		
	15:20 A. Are you reading from part of the document?		
	15:21 Q. No. I'm actually reading from representations		
	15:22 from Google's counsel that was filed.		
	15:23 A. Got it.		
16:01 - 16:01	Chan, Christopher 2022-11-29	00:00:02	Chan_C.4
	16:01 THE WITNESS: Yes, this is my understanding.		
16:02 - 16:10	Chan, Christopher 2022-11-29	00:00:28	Chan_C.5
	16:02 Q. BY MR. SULLIVAN: And you are Google's corpora	ate	
	designee on Topic 4 as it relates to: One, custor	ner	
	16:04 feedback, including comments and/or complain		
	16:05 the accused functionalities, to the extent such for		
	16:06 exists and is reasonably within Google's possess		
	16:07 custody, and control; and two, metrics informat	ion	
	16:08 regarding usage of the accused functionalities.		
	16:09 Is that correct?		
	16:10 A. That sounds right.		

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Chan_C - As Played in Court 5/16/23

DESIGNATION	SOURCE	DURATION	I D
18:11 - 18:21	Chan, Christopher 2022-11-29	00:00:25	Chan_C.6
	18:11 Q. You were a		
	18:12 product manager at Google from May 2017 to	October of	
	18:13 2020; is that right?		
	18:14 A. Yes, that's correct.		
	18:15 Q. And then you got promoted to senior product	t	
	18:16 manager?		
	18:17 A. Yes, that's correct.		
	18:18 Q. And that is your current title?		
	18:19 A. Yes.		
	18:20 Q. So what products are you responsible for as a	a	
	18:21 product manager at Google?		
18:23 - 19:02	Chan, Christopher 2022-11-29	00:00:18	Chan_C.7
	18:23 THE WITNESS: Are you asking right now or in		
	18:24 prior months or years?		
	18:25 Q. BY MR. SULLIVAN: Let's start with when you w	vere	
	19:01 just a product manager, and then I'll ask abou	ut if it's	
	19:02 changed in your role as senior product manag	ger.	
19:04 - 19:11	Chan, Christopher 2022-11-29	00:00:29	Chan_C.8
	19:04 THE WITNESS: So when I was a product mana	ager, I	
	19:05 worked on Google Home Max.		
	19:06 Q. BY MR. SULLIVAN: Okay. Any other products?	?	
	19:07 A. Also I worked on Nest Mini.		
	19:08 Q. Any other products?		
	19:09 A. Also I worked on Nest Audio.		
	19:10 Q. How about Google Home; did you work on th	at	
	19:11 product?		
19:13 - 19:23	Chan, Christopher 2022-11-29	00:00:43	Chan_C.9
	19:13 THE WITNESS: I worked on software features	that	
	19:14 impacted Google Home, but not the hardward	e product	
	19:15 itself.		
	19:16 Q. BY MR. SULLIVAN: Are there any other produc	cts	
	19:17 that we didn't just discuss?		
	19:18 A. I worked on software features for additional		
	19:19 products.		
	19:20 Q. And what were those software features and		
	19:21 products?		
	19:22 A. Software features included our group playbac	ck	
	19:23 functionality.		

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Chan_C - As Played in Court 5/16/23

DESIGNATION	SOURCE	DURATION	I D
19:24 - 20:02	Chan, Christopher 2022-11-29	00:00:15	Chan_C.10
	19:24 Q. Okay. Any other features?		
	19:25 A. Our stream transfer functionality.		
	20:01 Q. Anything else?		
	20:02 A. Stereo pairing.		
20:06 - 20:09	Chan, Christopher 2022-11-29	00:00:13	Chan_C.11
	20:06 Q. BY MR. SULLIVAN: Any other features?		
	20:07 A. Marble.		
	20:08 Q. And what is "Marble"?		
	20:09 A. Marble is our on-device assistant technology.		
20:13 - 20:18	Chan, Christopher 2022-11-29	00:00:27	Chan_C.12
	20:13 A. Marble is a software feature that rings the		
	20:14 intelligence of the Google assistant onto the device	ce so	
	20:15 that users have a faster experience.		
	20:16 Q. And did you work on any other features?		
	20:17 A. Those were the primary ones that I can remembe	r	
	20:18 from where I sit now.		
20:19 - 20:20	Chan, Christopher 2022-11-29	00:00:06	Chan_C.13
	20:19 Q. And what products have you had responsibility		
	20:20 for as a senior product manager?		
20:24 - 20:25	Chan, Christopher 2022-11-29	00:00:03	Chan_C.14
	20:24 THE WITNESS: Currently, I am working on Pixel		
	20:25 tablet.		
21:22 - 21:23	Chan, Christopher 2022-11-29	00:00:06	Chan_C.15
	21:22 Q. BY MR. SULLIVAN: Okay. Let's turn to the next		
Ø T128.1	21:23 exhibit in the folder. It's Exhibit 1261.		
21:25 - 22:05	Chan, Christopher 2022-11-29	00:00:29	Chan_C.16
	21:25 and I ask if you recognize that document.		
	22:01 A. I do recognize this document.		
	22:02 Q. Can you tell me what it is, please.		
	22:03 A. This document is a reference to metrics that		
	22:04 kind of explain usage of cast functionality and mu	ltizone	
	22:05 functionality.		
25:18 - 25:18	Chan, Christopher 2022-11-29	00:00:04	Chan_C.17
	25:18 Q. Why was Exhibit 1261 created?		
25:20 - 25:22	Chan, Christopher 2022-11-29	00:00:07	Chan_C.18
	25:20 THE WITNESS: My understanding was that it was		
	25:21 created as a reference to better understand the m	etrics	

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DESIGNATION	SOURCE	DURATION	I D
	25:22 that we will be reviewing.		
26:05 - 26:09	Chan, Christopher 2022-11-29	00:00:20	Chan_C.19
	26:05 I'm going to refer to computing devices as		
	26:06 devices such as mobile phones, tablets, laptops,		
	26:07 desktops, and other computing devices.		
	26:08 Is that okay?		
	26:09 A. Sounds good.		
40:04 - 40:05	Chan, Christopher 2022-11-29	00:00:06	Chan_C.20
Ø T130.2	40:04 Q. BY MR. SULLIVAN: Okay. Let's take a look at	D -	
	40:05 Exhibit 1263. And my first question is going to be:		
40:06 - 40:06	Chan, Christopher 2022-11-29	00:00:05	Chan_C.21
	40:06 you recognize this document?		
40:07 - 40:07	Chan, Christopher 2022-11-29	00:00:02	Chan_C.22
	40:07 A. This document looks vaguely familiar.		
40:17 - 40:20	Chan, Christopher 2022-11-29	00:00:13	Chan_C.23
	40:17 Q. BY MR. SULLIVAN: I'm sorry. Wait, let's start		
	40:18 with the first one that says "Releases 2019 to prese	nt."	
	40:19 A. Yes.		
	40:20 Q. What information is in that tab?		
40:22 - 41:05	Chan, Christopher 2022-11-29	00:00:31	Chan_C.24
	40:22 THE WITNESS: It appears to be the status of		
	40:23 Google Home app releases between 2019 and 2021	•	
6 T130.4	40:24 Q. BY MR. SULLIVAN: All right. Let's go to the		
	40:25 next tab which says: "US install events (2019 to		
A T120 4 1	41:01 present)."		
Ø T130.4.1	41:02 Do you see that tab? 41:03 A. I do.		
	41:04 Q. Okay. What information is being captured in		
	41:05 this tab of the Exhibit 1263?		
41:08 - 41:09	Chan, Christopher 2022-11-29	00:00:06	Chan_C.25
11.00	41:08 THE WITNESS: It would appear to be install	00.00.00	0.1a11_0.25
	41:09 events of the Google Home app by country.		
60:05 - 60:06	Chan, Christopher 2022-11-29	00:00:04	Chan_C.26
00.00	60:05 Q. BY MR. SULLIVAN: Okay. Let's take a look at	00.00.01	0
ℱ T138.2	60:06 Exhibit 1271, please. And there are a lot of tabs her	e	
60:07 - 60:10	Chan, Christopher 2022-11-29	00:00:12	Chan_C.27
	60:07 so I want to make sure you click over to the to see		_

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DESIGNATION	SOURCE	DURATION	I D
	60:08 all the tabs.		
	60:09 My first question is going to be: Do you		
	60:10 recognize this document?		
60:12 - 60:17	Chan, Christopher 2022-11-29	00:00:20	Chan_C.28
	60:12 THE WITNESS: I don't recognize this document.		
6 T138.2.3	60:13 Q. BY MR. SULLIVAN: Let's take a look at the first		
	60:14 tab. It says "GPM First Time Downloads."		
	60:15 Do you see that?		
	60:16 A. I see that.		
	60:17 Q. What does "GPM" refer to?		
60:19 - 60:22	Chan, Christopher 2022-11-29	00:00:09	Chan_C.29
6 T138.2.1	60:19 THE WITNESS: It would appear to refer to Google		
_	60:20 Play music.		
ℱ T138.2.2	60:21 Q. BY MR. SULLIVAN: And what does "first-time		
	60:22 downloads" refer to?		
60:24 - 61:02	Chan, Christopher 2022-11-29	00:00:15	Chan_C.30
	60:24 THE WITNESS: I'm not familiar with that		
	60:25 concept.		
	61:01 Q. BY MR. SULLIVAN: Do you recollect if a		
	61:02 first-time download is different than an install?		
61:05 - 61:05	Chan, Christopher 2022-11-29	00:00:01	Chan_C.31
	61:05 THE WITNESS: I do not.		
62:13 - 62:14	Chan, Christopher 2022-11-29	00:00:04	Chan_C.32
𝚱 ₹139.2	62:13 Q. BY MR. SULLIVAN: All right. Let's take a look		
	62:14 at Exhibit 1272.		
62:15 - 62:16	Chan, Christopher 2022-11-29	00:00:04	Chan_C.33
	62:15 The first question's going to be: Have you ever		
	62:16 seen this document before?		
62:18 - 62:21	Chan, Christopher 2022-11-29	00:00:17	Chan_C.34
	62:18 THE WITNESS: Insofar as it appears similar to a		_
	62:19 prior exhibit.		
	62:20 Q. BY MR. SULLIVAN: Would that prior exhibit be		
	62:21 Exhibit 1263?		
62:24 - 62:24	Chan, Christopher 2022-11-29	00:00:01	Chan_C.35
	62:24 THE WITNESS: Yes.		_
63:20 - 63:23	Chan, Christopher 2022-11-29	00:00:13	Chan_C.36
© T139.6.1	63:20 Q. BY MR. SULLIVAN: And if we turn back to		22
. 200.0.1			

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Chan_C - As Played in Court 5/16/23

DESIGNATION	SOURCE	DURATION	I D
	63:21 Exhibit 1272, this appears to be an update of		
	63:22 Exhibit 1263 that goes through November of 2022	; is that	
	63:23 right?		
64:01 - 64:06	Chan, Christopher 2022-11-29	00:00:20	Chan_C.37
	64:01 THE WITNESS: Not looking at the specific		
	numbers, but I see that November 2022 is the last	date in	
	64:03 the US Install Events spreadsheet or sheet.		
	64:04 Q. BY MR. SULLIVAN: Okay. Would your answers for		
	64:05 the questions I asked with respect to Exhibit 1263	be the	
	64:06 same for Exhibit 1272?		
64:09 - 64:10	Chan, Christopher 2022-11-29	00:00:05	Chan_C.38
	64:09 THE WITNESS: I can't recall my answers for the		
	64:10 prior spreadsheet.		
64:11 - 64:13	Chan, Christopher 2022-11-29	00:00:19	Chan_C.39
	64:11 Q. BY MR. SULLIVAN: Do you see anything in		
	64:12 Exhibit 1272 that's different from Exhibit 1263 other	er	
	64:13 than the update from February 2022 to November	2022?	
64:16 - 64:20	Chan, Christopher 2022-11-29	00:00:15	Chan_C.40
	64:16 THE WITNESS: I see no obvious differences in my		
	64:17 current review of the spreadsheet.		
	64:18 Q. BY MR. SULLIVAN: So, again, this is this		
	64:19 document is dealing with install events for the And	droid	
	64:20 version of the Google Home app; correct?		
64:22 - 64:23	Chan, Christopher 2022-11-29	00:00:05	Chan_C.41
	64:22 THE WITNESS: That would appear to be the case		
	64:23 in reviewing the install event sheet.		
67:23 - 67:24	Chan, Christopher 2022-11-29	00:00:02	Chan_C.42
Clear	67:23 Q. BY MR. SULLIVAN: So smartphones have a		
_	67:24 processor; right?		
68:01 - 68:04	Chan, Christopher 2022-11-29	00:00:09	Chan_C.43
	68:01 THE WITNESS: They have at least one processor,		_
	68:02 yes.		
	68:03 Q. BY MR. SULLIVAN: Do tablets also have at least		
	68:04 one processor?		
68:06 - 68:09	Chan, Christopher 2022-11-29	00:00:09	Chan_C.44
	68:06 THE WITNESS: Tablets have at least one		
	68:07 processor, yes.		
	68:08 Q. BY MR. SULLIVAN: And how about laptops and		

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DESIGNATION	SOURCE	DURATION	I D
	68:09 desktops; do they have at least one processor?		
68:12 - 68:15	Chan, Christopher 2022-11-29	80:00:00	Chan_C.45
	68:12 THE WITNESS: My understanding is that laptops		
	68:13 and desktops also have processors.		
	68:14 Q. BY MR. SULLIVAN: How about Chromebooks; do th	ey	
	68:15 have at least one processor?		
68:17 - 68:20	Chan, Christopher 2022-11-29	00:00:18	Chan_C.46
	68:17 THE WITNESS: In that a Chromebook is a type of		
	68:18 laptop, yes.		
	68:19 Q. BY MR. SULLIVAN: Is a device with a processor		
	68:20 required to run the Google Home app?		
68:23 - 68:25	Chan, Christopher 2022-11-29	00:00:07	Chan_C.47
	68:23 THE WITNESS: I believe so.		
	68:24 Q. BY MR. SULLIVAN: Is a device with a processor		
	68:25 required to run the YouTube apps?		
69:02 - 69:02	Chan, Christopher 2022-11-29	00:00:02	Chan_C.48
	69:02 THE WITNESS: That is my understanding, yes.		
69:21 - 69:22	Chan, Christopher 2022-11-29	00:00:02	Chan_C.49
	69:21 Q. BY MR. SULLIVAN: So smartphones have memory;		
	69:22 right?		
69:24 - 70:01	Chan, Christopher 2022-11-29	00:00:05	Chan_C.50
	69:24 THE WITNESS: Smartphones do have memory, yes	i .	
	69:25 Q. BY MR. SULLIVAN: So do tablets and computers;		
	70:01 right?		
70:04 - 70:04	Chan, Christopher 2022-11-29	00:00:02	Chan_C.51
	70:04 THE WITNESS: That is my understanding, yes.		_
71:12 - 71:13	Chan, Christopher 2022-11-29	00:00:04	Chan_C.52
71,12 71,13	71:12 Q. BY MR. SULLIVAN: Have you ever installed any	00.00.01	C11011_C.32
	71:13 apps onto a Pixel tablet?		
71:15 - 71:15	Chan, Christopher 2022-11-29	00:00:01	Chan_C.53
11.13 - 11.13	71:15 THE WITNESS: I have.	00.00.01	Chan_C.55
73:12 - 73:14	Chan, Christopher 2022-11-29	00:00:05	Chan_C.54
	73:12 Q. BY MR. SULLIVAN: Okay. What's your definition		
	73:13 of memory?		
	73:14 A. So		
73:16 - 73:18	Chan, Christopher 2022-11-29	00:00:12	Chan_C.55
	73:16 THE WITNESS: There is short-term memory, which		

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DESIGNATION	SOURCE		DURATION	I D
	73:17	is represented or used as RAM, and long-term mem	nory,	
	73:18	which is more storage space.		
75:18 - 75:19	Chan, Ch	ristopher 2022-11-29	00:00:06	Chan_C.56
	75:18 Q	. BY MR. SULLIVAN: Do all smartphones and tablets		
	75:19	and computers have a storage system?		
75:22 - 76:01	Chan, Ch	ristopher 2022-11-29	00:00:26	Chan_C.57
	75:22	THE WITNESS: I'm not entirely sure.		
	75:23 Q	. BY MR. SULLIVAN: How about smartphones,		
	75:24	tablets, and laptops where the Google Home app o	or one of	
	75:25	the YouTube apps can be installed; do they have a	storage	
	76:01	system?		
76:04 - 76:05	Chan, Ch	ristopher 2022-11-29	00:00:05	Chan_C.58
	76:04	THE WITNESS: Most phones, tablets, and laptops		
	76:05	I've seen have storage.		
78:18 - 78:21	Chan, Ch	ristopher 2022-11-29	00:00:11	Chan_C.59
	78:18 Q	. BY MR. SULLIVAN: Yeah. I'm just talking about		
	78:19	the Google Home app and the YouTube apps. Whe	n you	
	78:20	install those on a computing device, they're stored	on	
	78:21	the computing device; right?		
78:23 - 78:23	Chan, Ch	ristopher 2022-11-29	00:00:02	Chan_C.60
	78:23	THE WITNESS: Often, they are.		
80:06 - 80:08	Chan, Ch	ristopher 2022-11-29	00:00:09	Chan_C.61
	80:06	So, again, going back to my original question:		
	80:07	When it's installed, these apps are stored on the		
	80:08	computing devices; right?		
80:11 - 80:12	Chan, Ch	ristopher 2022-11-29	00:00:04	Chan_C.62
	80:11	THE WITNESS: I think so, but I'm not entirely		
	80:12	confident on that assertion.		
90:16 - 90:18	Chan, Ch	ristopher 2022-11-29	00:00:09	Chan_C.63
	90:16	Does Google instruct users to download the		
	90:17	Google Home app onto their computing devices in	order to	
	90:18	set up and use Google's speakers?		
90:22 - 91:05	Chan, Ch	ristopher 2022-11-29	00:00:32	Chan_C.64
	90:22	THE WITNESS: When setting up a smart speaker,		
	90:23	there is a quick-start guide in the packaging that		
	90:24	instructs users to set up and download the Google	Home	
	90:25	app. And then in addition to that, when they plug	in a	

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91:01 speaker, the Google assistant's voice also instructs 91:02 users to download the Google Home app. 91:03 Q. BY MR. SULLIVAN: Does the Google Home app need 91:04 to be downloaded onto users' computer devices in order to 91:05 set up and use Google's speakers? 91:08 - 91:11 Chan, Christopher 2022-11-29 00:00:14 Chan_C.65 91:08 THE WITNESS: Access to the Home app is required 91:09 to set up a Google smart speaker. 91:10 Q. BY MR. SULLIVAN: Is the Google Home app 91:11 required to create a speaker group? 91:13 - 91:16 Chan, Christopher 2022-11-29 00:00:16 Chan_C.66 91:13 THE WITNESS: Yes. The Google Home app is 91:14 required to create a static speaker group. 91:15 Q. BY MR. SULLIVAN: Does Google encourage people 91:16 to download the Google Home app? 91:19 - 91:21 Chan, Christopher 2022-11-29 00:00:09 Chan_C.67 91:19 THE WITNESS: So both the quick-start guide and 91:20 the smart speaker itself both prompt the user to download 91:21 and install the Home app to set it up. 98:13 - 98:14 Chan, Christopher 2022-11-29 00:00:09 Chan_C.68 98:13 Q. BY MR. SULLIVAN: Does Google provide 98:14 instructions on how to use the Google Home app? 98:17 - 98:20 Chan, Christopher 2022-11-29 00:00:08 Chan_C.69 98:17 THE WITNESS: I'm aware of support materials for the Google Home app. 98:19 Q. BY MR. SULLIVAN: What support materials are 98:20 those?	DESIGNATION	SOURCE	DURATION	I D
91:03 Q. BY MR. SULLIVAN: Does the Google Home app need 91:04 to be downloaded onto users' computer devices in order to 91:05 set up and use Google's speakers? 91:08 - 91:11 Chan, Christopher 2022-11-29 00:00:14 Chan_C.65 91:08 THE WITNESS: Access to the Home app is required 91:09 to set up a Google smart speaker. 91:10 Q. BY MR. SULLIVAN: Is the Google Home app 91:11 required to create a speaker group? 91:13 THE WITNESS: Yes. The Google Home app is 91:14 required to create a static speaker group. 91:15 Q. BY MR. SULLIVAN: Does Google encourage people 91:16 to download the Google Home app? 91:19 - 91:21 Chan, Christopher 2022-11-29 00:00:09 Chan_C.67 91:19 THE WITNESS: So both the quick-start guide and 91:20 the smart speaker itself both prompt the user to download 91:21 and install the Home app to set it up. 98:13 - 98:14 Chan, Christopher 2022-11-29 00:00:04 Chan_C.68 98:13 Q. BY MR. SULLIVAN: Does Google provide 98:14 instructions on how to use the Google Home app? 98:17 THE WITNESS: I'm aware of support materials for the Google Home app. 98:18 the Google Home app. 98:19 Q. BY MR. SULLIVAN: What support materials are		91:01 speaker, the Google assistant's voice also instructs		
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98:18 the Google Home app. 98:19 Q. BY MR. SULLIVAN: What support materials are	98:17 - 98:20	Chan, Christopher 2022-11-29	00:00:08	Chan_C.69
98:19 Q. BY MR. SULLIVAN: What support materials are		98:17 THE WITNESS: I'm aware of support materials for		
		98:18 the Google Home app.		
98:20 those?		98:19 Q. BY MR. SULLIVAN: What support materials are		
		98:20 those?		
98:22 - 98:25 Chan, Christopher 2022-11-29 00:00:06 Chan_C.70	98:22 - 98:25	Chan, Christopher 2022-11-29	00:00:06	Chan_C.70
98:22 THE WITNESS: I'm aware of online support		98:22 THE WITNESS: I'm aware of online support		
98:23 materials.		98:23 materials.		
98:24 Q. BY MR. SULLIVAN: Can you tell me what those		98:24 Q. BY MR. SULLIVAN: Can you tell me what those		
98:25 are?		98:25 are?		
99:02 - 99:04 Chan, Christopher 2022-11-29 00:00:08 Chan_C.71	99:02 - 99:04	Chan, Christopher 2022-11-29	80:00:00	Chan_C.71
99:02 THE WITNESS: I'm generally aware of online		99:02 THE WITNESS: I'm generally aware of online		
99:03 support materials that allow you to search for specific		99:03 support materials that allow you to search for spec	ific	
99:04 features supported by the Google Home app.		99:04 features supported by the Google Home app.		
107:12 - 107:14 Chan, Christopher 2022-11-29 00:00:07 Chan_C.72	107:12 - 107:14	Chan, Christopher 2022-11-29	00:00:07	Chan_C.72
107:12 Q. BY MR. SULLIVAN: Okay. So it's your		107:12 Q. BY MR. SULLIVAN: Okay. So it's your		

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DESIGNATION	SOURCE	DURATION	I D
	107:13 understanding, just to circle back, that Google do	es not	
	107:14 compete with Sonos in the home audio market; ri	ight?	
107:16 - 107:18	Chan, Christopher 2022-11-29	00:00:06	Chan_C.73
	107:16 THE WITNESS: I don't view them as directly		
	107:17 competitive. I understand that there is some over	rlapping	
	107:18 functionality.		
109:03 - 109:04	Chan, Christopher 2022-11-29	00:00:05	Chan_C.74
	109:03 Q. Okay. And you're saying the Sonos 1 doesn't		
	109:04 compete with any of Google's smart speakers?		
109:06 - 109:20	Chan, Christopher 2022-11-29	00:01:09	Chan_C.75
	109:06 THE WITNESS: I can see that for some some		
	109:07 users, they might be deciding between Sonos 1 ar	nd Nest	
	109:08 Audio, but the price points are quite different, and	d	
	109:09 ultimately, they are different ecosystems. So I do	n't	
	109:10 know how much of a competition it actually is.		
	109:11 Q. BY MR. SULLIVAN: What do you mean they're in		
	109:12 different ecosystems?		
	109:13 A. So what I mean by that is the Sonos devices are		
	in the Sonos ecosystem and that Nest smart spea	kers are	
	in the Nest ecosystem.		
	109:16 Q. What do you mean by the term "ecosystem"?		
	109:17 A. By "ecosystem," I mean a set of devices under		
	109:18 the same brand.		
	109:19 Q. Does the ecosystem affect what speaker a user		
	109:20 purchases?		
109:23 - 110:02	Chan, Christopher 2022-11-29	00:00:18	Chan_C.76
	109:23 THE WITNESS: I think that's the hope, but I		
	109:24 haven't seen much data in regards to the Nest eco	osystem.	
	109:25 Q. BY MR. SULLIVAN: So if somebody buys a Nest		
	speaker, they become part of the Nest ecosystem;	; is that	
	110:02 right?		
110:05 - 110:09	Chan, Christopher 2022-11-29	00:00:12	Chan_C.77
	110:05 THE WITNESS: That's the intent, but I haven't		
	seen strong data to support it.		
	110:07 Q. BY MR. SULLIVAN: If someone buys a Sonos		
	speaker, then they would be in the Sonos ecosyste	em;	
	110:09 right?		
110:11 - 110:15	Chan, Christopher 2022-11-29	00:00:17	Chan_C.78
	110:11 THE WITNESS: That sounds right.		

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Chan_C - As Played in Court 5/16/23

DESIGNATION	SOURCE	DURATION	I D
	110:12 Q. BY MR. SULLIVAN: And if they're in the Nest		
	ecosystem, when they buy their second speaker, t	:hey'd	
	110:14 likely purchase a Nest speaker for that second spe	eaker;	
	110:15 right?		
110:17 - 110:22	Chan, Christopher 2022-11-29	00:00:19	Chan_C.79
	110:17 THE WITNESS: That's the hope, but I haven't		
	seen strong data that suggests the narrative that y	ou are	
	110:19 describing.		
	110:20 Q. BY MR. SULLIVAN: Well, are you aware of anyone		
	buying a Nest speaker and then turning around an	nd buying	
	110:22 a Sonos speaker as a second speaker?		
110:24 - 111:01	Chan, Christopher 2022-11-29	00:00:11	Chan_C.80
	110:24 THE WITNESS: I'm sure they exist.		
	110:25 Q. BY MR. SULLIVAN: You're sure they exist, but I		
	thought you said that they don't compete; right?		
111:03 - 111:09	Chan, Christopher 2022-11-29	00:00:28	Chan_C.81
	111:03 THE WITNESS: Yes, that that was my like general		
	111:04 view about competition.		
	111:05 Q. BY MR. SULLIVAN: So Google and Sonos don't		
	111:06 compete, but you're aware of the fact that someb	ody that	
	111:07 bought a Google speaker as a first speaker may bu	uy a	
	111:08 Sonos speaker as a second speaker.		
	111:09 Did I get that right?		
111:11 - 111:13	Chan, Christopher 2022-11-29	00:00:07	Chan_C.82
	111:11 THE WITNESS: I was saying I'm sure they		
	111:12 probably exist, but I have not seen concrete data to	to that	
	111:13 effect.		
111:25 - 112:01	Chan, Christopher 2022-11-29	00:00:03	Chan_C.83
	111:25 THE WITNESS: Well, I don't know if I agree with		
	112:01 that.		
112:05 - 112:06	Chan, Christopher 2022-11-29	00:00:04	Chan_C.84
	112:05 THE WITNESS: I'm not willing to make that		
	112:06 claim.		
113:07 - 113:19	Chan, Christopher 2022-11-29	00:00:46	Chan_C.85
	113:07 Q. BY MR. SULLIVAN: No. Okay. What's your		
	113:08 definition of competition?		
	113:09 A. So I think of competition as when a person is		
	113:10 considering a specific product, they have a number	er of	

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Chan_C - As Played in Court 5/16/23

DESIGNATION	SOURCE	DURATION	I D	
	options in kind of a competitive set, and they narrow in			
	on the options and then ultimately pick one. Whatever those options were, were competitors. 113:14 Q. Okay. So using that definition of competition, 113:15 I'll go back to my original question.			
	113:16 Well, let me phrase the question this way.			
	113:17 Using that definition of competition, does Google	compete		
	113:18 with Sonos in either the home audio market or th	ith Sonos in either the home audio market or the smart		
	113:19 speaker market?			
113:21 - 113:24	Chan, Christopher 2022-11-29	00:00:11	Chan_C.86	
	113:21 THE WITNESS: I think the answer depends.			
	113:22 Q. BY MR. SULLIVAN: How does it depend?			
	113:23 A. It depends on whether we're talking about home			
	113:24 audio or smart speaker.			
115:23 - 115:24	Chan, Christopher 2022-11-29	00:00:10	Chan_C.87	
	115:23 Your knowledge about whether Google and Sono	S		
	115:24 compete in the home audio market, what is that b	pased on?		
115:25 - 116:17	Chan, Christopher 2022-11-29	00:01:01	Chan_C.88	
	115:25 A. It's based on some level of reviews and			
	116:01 reviewing those.			
	116:02 Q. What reviews?			
	116:03 A. Sometimes people write reviews when we launch	l		
	116:04 our products.	our products.		
	116:05 Q. And what do they say in those reviews that would	l		
	116:06 help you determine whether Google competes wi	help you determine whether Google competes with Sonos in		
	116:07 the home audio market?			
	116:08 A. Sometimes they'll reference Sonos products in			
	116:09 those reviews.			
	116:10 Q. And these are reviews of your products?			
	116:11 A. I think I've seen them before, yes.			
	116:12 Q. Okay. So people are are reviewing your			
	product and mentioning Sonos' products; is that	what		
	116:14 you're saying?			
	116:15 A. They will mention other products as well.			
	116:16 Q. Wouldn't that indicate that there's competition			
	116:17 between the two?			
116:19 - 116:20	Chan, Christopher 2022-11-29	00:00:06	Chan_C.89	
	116:19 THE WITNESS: That would indicate that the			
	reviewer sees some level of competition between	the two.		

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Chan_C - As Played in Court 5/16/23

DESIGNATION	SOURCE	DURATION	I D
117:22 - 117:24	Chan, Christopher 2022-11-29	00:00:10	Chan_C.90
	117:22 Q. BY MR. SULLIVAN: And do you do you believe		
	that Google competes with Sonos in the smart sp	eaker	
	117:24 market? Again, I'm using your definition of compe	etition.	
118:01 - 118:02	Chan, Christopher 2022-11-29	00:00:04	Chan_C.91
	118:01 THE WITNESS: In certain cases, I believe there		
	is some competition, yes.		
125:11 - 125:12	Chan, Christopher 2022-11-29	00:00:04	Chan_C.92
	125:11 Q. BY MR. SULLIVAN: Do you have any idea of		
	125:12 whether Google's smart speakers are profitable?		
125:14 - 125:16	Chan, Christopher 2022-11-29	00:00:08	Chan_C.93
	125:14 THE WITNESS: Not really.		
	125:15 Q. BY MR. SULLIVAN: Would Google sell a product		
	125:16 that wasn't profitable?		
125:18 - 125:22	Chan, Christopher 2022-11-29	00:00:16	Chan_C.94
	125:18 THE WITNESS: I can't speak to the hypothetical,		
	125:19 but I can say that Google encourages all of our ha	rdware	
	125:20 products to be run sustainably.		
	125:21 Q. BY MR. SULLIVAN: And how does Google make me	oney	
	125:22 from its smart speakers?		
125:24 - 125:25	Chan, Christopher 2022-11-29	00:00:03	Chan_C.95
	125:24 THE WITNESS: I don't know that Google makes		
	125:25 money from its smart speakers.		

TOTAL RUN TIME	00:20:07
Google Counters	00:00:56
Sonos Affirmatives	00:19:12

Documents linked to video:
T128
T130
T138
T139